The DX Bulletin

• *America's Oldest Weekly Amateur Radio Publication* •

Issue 357 - Oct 10, 1986

DXpedition News

XX9 - Macao Akito Nagi JA5DQH will operate as XX9XX from Macao Nov. 25-28, including CQWW CW. He'll be on all bands, and promises special attention to greyline. Sunrise is 2240Z, sunset is 0940Z. Akito will also operate as **NN7S/VS6** after the contest, Nov. 29-Dec. 5.

Trindade - PY0T NCDXC's The DXer says that PY1DFF and PY2RRG will operate /PY0T for 48 hours in mid-October, probably sometime between Oct. 8-18. Look 25 kHz up from the band edge on CW, including 80 and 160. QSL to PY1DFF. Sunrise 0740, set 2000Z.

Thailand - HS DXNL reports that OE2REL will activate HS4ANH this month. Watch 7002 and 14002. QSL to OE2DYL. And don't forget HS0A in the CQWW contests. This is your best shot at Zone 26 for the WAZ-50 award.

Guyana - 8R1 Rick NQ4I of the Dixie DXers is shooting for a top score in CQWW SSB as **8R1Z**. He'll concentrate on low-band CW before the contest, starting Oct. 21. Look for him on 160 during the first 10 minutes of each nighttime hour, transmitting on 1827 and listening 1844 and 1855. On 80 he'll send on 3745-48, listening 3790 and 3805. Watch 7045 and 7075 kHz on 40. QSL to WI4K. Sunrise 0950Z, sunset 2140Z.

Marion Island - ZS2MI KB1BE sends word that the recent ZS2MI operation will not count, as the operators had failed to obtain the proper permission from the Postmaster General. ZR VHF-licensees can get permission to operate HF bands from ZS2MI, but these ops didn't file their paperwork.

160 Meter RTTY Message Board

Rob KA1SR, editor of The 160 Meter Bulletin, runs a 160-only MSO on 14082, 60 baud or 60 wpm. Access is CR/LF DX CR/LF. 160 meter DX news and skeds only, please. Or contact Rob at 5 Watson Dr., Portsmouth RI 02871.

Shortly Noted

• **China - BY** BY5QA skeds JA6 Saturday 0330Z on 21185. QSL Box 507 Fuzhou PRC.

• **Christmas Island - VK9X** Ron ZL1AMO consistently operates VK9XI around 7005 10-1500Z. He makes occasional excursions to 75/80, but usually returns quickly to 40.

• **Maldives - 8Q7** 8Q7CH is often found on 14004 around 1700Z calling CQ W/VE with few takers. QSL SM5DQC.

• **TV6PAP** was a special callsign for the Pope's visit to France.

• **Seychelles - S79** S79DX recently showed on 14015 with a fine signal at 1600Z. QSL via G3PEK. An S79 on CW is rare indeed!

• **Tanzania - 5H** 5H3ZO continues to work Stateside on 14028 19-2200Z. Chuck Taylor KC7UU, whose transportation problems have disrupted his schedule, used 5H3ZO at the beginning of October.

• **Gough Is. - ZD9** ZD9CL is very loud long path on 14235 around 1700Z, or 14227 1600Z.

• **Hong Kong - VS6** VS6DO often shows on 7004 at 10-1100Z. However, he disappears if the pileup gets too big. Take it easy; he's on almost every day.

• **Yemen - 4W** Bad news on the proposed 4W operation: the ham who said he had a license in Yemen has been reassigned, and he won't be making the trip. His replacement is not an amateur. Exxon is expanding operations in Yemen, and it may be only a matter of time before this one shows. Thanks W5OVC.

• **Mt. Athos - SV/A** SV1DO says the resident monk won't be active as SY until March 1987.

• **Botswana - A22** A22BW shows on 7014 around 1430Z, at about 12 wpm. QSL DK3KD.

• **Zimbabwe - Z2** Z23JO likes 7005 at 0400Z.

What's The Frequency, Dan?

TV commentator Dan Rather was mugged in New York City [so what else is new] by two men who shouted, "What's the frequency?" Obviously the muggers were frustrated DXers mislead by Albania rumors, seeking the supposed ZA's operating spot!

— **Chod Harris VP2ML Editor**

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PROPAGATION

Forecast and Historical Data

Day October	Forecast	27 Days Before Date	Flux	A	K	54 Days Before Date	Flux	A	K
10	High Nor	9/13	68	18/36	3	8/17	67	07/09	2
11	High Nor	9/14	69	11/18	2	8/18	67	06/07	1
12	Low Nor	9/15	71	13/24	3	8/19	67	12/11	3
13	High Nor	9/16	70	12/11	1	8/20	69	20/25	4
14	Low Nor	9/17	69	11/20	2	8/21	69	25/41	4
15	Below Nor	9/18	68	23/30	3	8/22	69	34/62	3
16	Below Nor	9/19	68	20/32	5	8/23	68	25/39	4
17	Below Nor	9/20	68	18/27	2	8/24	68	14/30	3
18	Low Nor	9/21	68	18/16	2	8/25	69	19/31	2
19	High Nor	9/22	68	10/08	2	8/26	69	13/33	3

Thanks N4XX and KH6BZF.

Propagation Watch

As predicted, DXers enjoyed moderately good band conditions during the first week of October. A small increase in solar flux combined with reasonable absorption to produce good 20 meters openings and even some 15 meter activity. If you weren't on the air, you missed some of the best conditions you're likely to see for several weeks. The next good stretch should arrive just **after** the CQWW SSB test. Look for above average propagation Oct. 27-30.

Solar flux will slide off over the next two weeks, and absorption will likely soar Oct. 14-17, returning us to lousy HF propagation. The early forecast for CQWW SSB is not good, but Sunday should be better than Saturday. [And me operating 15-meter single band! -ed.] The low bands are where the action is. Get those 40, 80, and 160 meter antennas up now!

WWV's computer continues to ail, and the 18-minute after-the-hour transmissions are still suspended. Is this a ploy by the government budget-cutters to eliminate this service? Maybe they're omitting the solar data info to see if anyone objects. Let's not take that chance: if you listen to the solar indicies at 18 minutes after the hour on WWV, drop a note today to Space Environment Services Center, 325 Broadway, Boulder CO 80303. Say you want the transmissions continued. TDXB has already fired off a note; send yours out today. Thanks to Bob Locher W9KNI for the suggestion.

CQ World Wide Contest DXpeditions

Scores of DXers and contesters will spend thousands of dollars and hundreds of person-hours to activate dozens of stations during CQWW SSB and CW. If you need any of the following countries, don't miss this golden opportunity to make some easy contacts. Even if you're **not** a contester, the CQWW tests provide an excellent chance to hook up with a host of stations. Among the known operations for SSB are:

8R1Z	by	NQ4I	5B4LP	by	4X6TT
9N1NFO	by	WB4NFO	VP2MU	by	K8GL and
P43	by	N1GL			many others
ZF2FL	by	N6RJ	XX9XX	by	JA5DQH
T2	by	OH1RY	VP2V	by	KQ2M
5W1	by	WB5VZL and KB1CM	8P9	by	W6's
			KH0	by	HL9CW
FS	by	AA4VK	3B8	by	W6KG + W6QL
VP9	by	N4SF	ZF2IM	by	WB8ZTY
V31	by	KE5CV	PJ0J	by	K4PI
NH9	by	WB7RFA	CT3	by	CT1DIZ

In the possible category for SSB are:

KH9	by	AH2BE	3B9	by	3B8DB
/T	by	FR5AI	PJ8	by	K7CA

Among the special calls will be:

4M4A	by	K3OUC	CR6BY	by	CT1BY
CR2UA	by	CT1UA	AZ1ARU(?)	by	VP2ML (who?)
KH9AC	by	himself			

QSL INFO

DX CALL	QSL TO	DX CALL	QSL TO
AZ1ARU	LU4BR	SV1RP/SV7	SV1NA
AZ1ARU/15	LU5EIC	TG9VT	W3HNK
AZ1ARU/5	LU6FAZ	TK/HB9TL	HB9TL
A35JF	G4AAL	TK0KP/SAN	F6EYS
A35KL	ZL4QS	TN8EE	F6ECX
A35NP	G4TAW	TZ6FS	DL4BC
A35QU	KB1QU	T30AC	AA6BB
A4XKC	KA1XN	UV1OO	UA9LBR
CN8CC	F6FNU	VE2LJ	VE3JDO
CN8EL	W2PD	VP2VA	VE3MJ
C30BBC	F6EGG	VS6CT/KP2	KA6V
C30DAI	ON4TJ	V44KAC	WB2LCH
C30DAK	ON4TJ	V44KQ	WB2LCH
C30LBK	EA3TJ	V85MS	N2OO
DJ4SN/CP8	DJ4SN	W3WYP/DU2	WA3HUP
EL2EF	KM8E	XT2BR	F6FNU
EL5G	K3RB	XU1SS	JA1HQG
FG/W1UQ/FS	W3HNK	YN8RC	WB8SSR
FG/W3BTX/FS7	W3BTX	YU3KI/5N0	YU3KI
FM5BH	W3HNK	YZ0U	YU2BHI
FO0CW	F6GXB	ZF2BN	W4HET
FO0FB	WB6GFJ	ZF2JU	KV9S
FV6NDX	F6AJA	ZK1WL	ZL3AFH(86CB)
FV6NDX/BAT	F6AJA	ZK1XK	WB2CVL
HC1MD/HC8	K8LJG	ZK1XZ	AG9Q
HI8LC	W2KF	ZP5XDW	N4DW
HK0BKX	WB9NUL	1Z9A	W7PHO
HL9MM	KA6V	3D2CM	G4AAL
H44RO	W6CNA	3D2DM	KE4OC
I2DMK/ID9	I2MQP	4N0CW	YU1BM
JW5E	LA5NM	4Z4IK	IK8DYD
JY8OC	F6BOC	5B4MF	IK8DYD
JY9RL	WA6POZ	5H3CE	IK6BOB
J28EM	W4FRU	5T5SL	DL8DF
J28EO	F6FYD	5W1DZ	WB2LVB
J73A	N6CW	5W1FK	G4AAL
KB6MVY/DW2	W6-BURO	5Z4DU	KE4DA
KE5OG/V0AM	OH2BH	5Z5EXP	DJ6SI
OK1XC/JT	OK1XC	8Q7CH	SM5DQC
OY/DF2PI	DF2PI	8Q7MA	OH2BH
PA6VHS	PA0DIN	9H3FI	IT9VDQ
SJ9WL	SM4FTF	9M8EN	G4RZQ
SL0FRO	SM5AHK		

DX Callsign	QTH Information
BY9GA	PO Box 12, Lanzhou, People's Republic of China
CO7KR	PO Box 5343, Camaguet, Cuba
HP3FL	PO Box 76, David, Republic of Panama
YN3CC	PO Box 2971, Managua, Nicaragua
ZD8LIK	Steve Hurst, c/o BBC, Ascension Is.
4K1ZZ	UY5DJ, V. Skrypnik, Box 435, 310084 Kharkov, Ukraine, USSR
8R1AMO	PO Box 10867, Georgetown, Guyana
8R1OJS	PO Box 10867, Georgetown, Guyana

QSL Help Given

W4VQ offers the following:

ZD8Z was via W6CUF, who is not in the latest Callbook. Anyone have any more information?

CR5AR was Amarilio Ramalho, c/o PTT, Sao Tome and **5T5AD** was Alban Duffau, PO Box 100, Moratio, Mauritania

And in the horror category, KQ2M reports that several boxes of QSLs enroute from the W2 QSL bureau to DXpedition stations and QSL managers didn't survive the journey through the New Jersey postal system. They broke open, and many cards were thrown away. If you sent a bureau card to P4/KQ2M, VP2V/KQ2M, or KQ2M and didn't get an answer, try again!

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Amphenol 8261 N Male 3.00 each
Fox 9913 Type-N Male 3.00 each
KLM Products: Cost + 10%
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3621 Fannin, Houston TX 77004 (713) 520-7300

BANDPASS

Reports Wanted, Especially RTTY, 30 meters

RTTY				
5H3ZO	14091	1917	26	CA
HI8DLA	14082	2155	26	CA
IS0MVE	14095	1710	27	CA
PY4DA	14094	2120	19	RI
UZ6AWF	14089	1626	25	CA
Y29AB	14087	1942	28	CA
YV5KAJ	14083	2122	19	RI
160 MTRS				
A35CW	1822	1054	21	TX
EA8AAU	1834	0356	21	RI
FG5AM	1832	0455	27	MA
FG5AM	1836	0400	21	RI
G3SZA	1829	0412	21	RI
H44IA	1824	1100	22	MA
HB9AMO	1833	0410	24	MA
KH8/ DK7PE	1826	1020	24	MA
KH8/ DK7PE	1822	0910	25	MA
PY1RO	1835	1035	26	TX
SM7BIC	1832	0440	24	MA
VK3QI	1833	1039	25	TX
VK9NS	1835	1033	25	TX
VP2VA	1830	0445	24	MA
80 MTRS				
3A2EE	3775	0440	27	TX
5N0/ YU3KI	3506	2329	27	MA
7J1ACH	3502	1159	2	CA
9M2DU	3793	1430	2	CA
C6ANI	3767	0148	2	MA
CO7RG	3795	1050	18	MI
CY0SAB	3792	0054	25	NH
FO5FO	3505	0638	14	CA
HK0BKX	3506	1030	3	CA
HR1/ WB5YWU	3802	0254	28	MA
J37AH	3792	0101	25	NH
OH0AM	3508	0413	21	TX
RA0JB	3507	1245	27	CA
RB5MF !	3795	0249	28	MA
TG9VT	3799	1149	3	CA
TI5EWL	3798	1056	4	CA
VK6IR	3795	1111	4	CA
VK9NS	3795	1050	26	MI
VK9XI	3799	1150	3	CA
YU1AWW	3795	0106	20	RI
ZL4QY	3510	1324	26	MT
40 MTRS				
3B8CF	7003	1415	1	CA
3B8CF	7002	1352	25	CA
4S7RO	7007	1423	26	CA
4Z4DX	7005	0057	25	TX
4Z4DX	7003	0100	17	MI
5B4/ YU3XU	7001	2307	28	FL
5H3ZO	7001	1447	2	CA
5N0/ YU3KI	7006	2322	28	FL
5N0/ YU3KI	7006	2200	27	MA
8Q7CH	7000	1440	3	CA
9Y4AT	7002	1147	4	FL
A22BW *	7008	1425	29	CA
A22BW *	7014	1436	27	CA
A35CW	7003	0458	19	CA
BV2FA	7002	1423	29	CA
CO6RC	7017	2318	28	FL
CP6IB	7015	0130	29	FL
CT1BCM	7008	0031	22	OH
CV1R	7001	0507	4	FL
DU2/KK7K	7003	1126	2	CA
FG5BM	7005	0008	21	TX
FK2HFF	7003	1120	24	MA
FM5BH	7002	1011	29	FL
FM5BH	7004	0959	28	IL
FR4ZD	7010	0407	21	TX
GJ0/ DK4JN	7006	2234	28	MA
GW3YDX	7047	2150	25	PA
HI8LC	7005	1054	27	MA
HK0BKX	7009	0620	27	MA
HK1AMW	7007	1135	3	CA
HL86AVS	7005	1252	26	CA
JD1BDK	7005 Ogasawara	1509	26	CA
KH8/ DK7PE	7002	1140	24	MA
KH8/ DK7PE	7003	0553	23	CA
KH9AC	7026	1351	27	CA
KP2J	7003	1000	2	FL
KP2J	7225	1040	25	PA
LU3XPM	7010	0605	25	CA
PJ2AE	7003	2336	27	FL
SP8YA	7004	0447	4	CA
TG9VT	7090	1137	2	CA
TR8JJC	7004	2210	27	MA
UB0YZ	7007	2314	28	FL
UF6FBB	7004	2310	27	MA
UV100	7013	0327	1	CA
V85AC	7007	1549	27	CA
VK6XA	7017	1213	28	CA
VK8MQ	7003	1234	28	WY
VK8MQ	7005	1112	27	MA
VP2VI	7006	2314	28	FL
VP9LL	7037	1045	24	PA
VP9LL	7013	2339	27	FL
VQ9GB	7004	1300	25	CA
VQ9GB	7003	1451	1	CA
VQ9QM	7001	1546	2	CA
VQ9QM	7002	1450	26	CA
VS6DT	7004	1326	1	CA
VS6DT	7002	1341	26	CA
VU2TEC	7005	1157	26	WY
XE3RX	7029	0520	29	VT
YB0AV	7003	1306	26	CA
YB0AV	7002	1236	28	WY
YC4FRX	7002	1108	2	CA
YN1/ WB0NAA	7029	1145	23	PA
YN3CC	7005	0441	30	CA
YN3CC	7005	0515	27	MA
YN3CC	7002	1150	4	FL
YV7QP	7037	1200	23	PA
Z21CA	7006	1540	2	CA
Z23JO	7004	0328	28	CA
Z23JO	7007	0412	1	CA
ZS6DM	7007	0456	24	CA
30 MTRS				
EI5DR	10101	2055	22	MA
FG5XC	10103	2050	22	MA
VK3MR	10105	2246	8	IN
20 MTRS				
3B8FP	14180	1145	22	MD
3G3E	14211	0013	24	MD
4K0D	14166	0158	17	MD
4U1UN	14021	1945	20	MD
4U1VIC	14030	1140	29	PA
5B4LP	14212	1842	21	MD
5B4SC	14165	1930	20	MD
5N/KC7UU	14029	1945	29	PA
5W1DZ	14308	0242	18	MD
5X5GK	14182	2045	19	CA
5Z4BP	14195	2049	21	RI
5Z4DU	14183	2000	12	MD
6W1AD	14019	2238	2	FL
8Q7CH	14024	1714	15	MD
8Q7CH	14004	1649	22	IN
8Q7CH	14027	1705	18	MA
8R1RBF	14181	2138	29	NH
9J2BO	14027	1526	1	CA
9V1TL	14025	1541	29	CA
BY1QH	14166	0205	17	MD
C30LDF	14033	1200	19	MA
CE5CNT	14027	2339	27	FL
CN8CE	14006	2207	1	FL
CN8EL	14210	1320	20	MD
CT1AMK	14086	2029	21	RI
EA8AT	14050	1139	23	GA
EA8BCJ	14052	1822	28	FL
EA9GA	14232	2235	10	VT
GU4WTN	14169	1552	29	CA
HH2DF	14284	2250	28	PA
HI60RCD	14022	1603	24	CA
HK0BKX	14015	1501	28	IL
HL86CG	14022	2255	2	FL
J28DS	14176	1733	29	CA
J87CD	14227	2330	12	VT
JW5E	14005	2143	29	CA
JW5E	14170	1449	28	IL
JX1AC	14018	1505	29	CA
KG4XO	14028	2340	29	PA
OD5PA	14241	1949	20	MD
OX3LX	14211	1253	17	MD
PZ1AP	14033	1153	23	GA
SV8CS	14195	2005	28	MT
T32AF	14183	0140	28	IL
T77C	14025	1927	22	MT
T77C	14220	1756	2	CA
TK/ HB9ASZ	14023	1937	22	MT
TK5UC	14030	1951	1	CA
TR8RAL	14208	2127	27	NH
TR8SA	14156	2150	27	MT
TR8SA	14216	2148	23	NH
TV6PAP	14008	2146	3	FL
TZ6MG	14208	2231	23	MD
TZ6WC	14226	2200	24	PA
UD/ UZ90WB	14022	1620	28	MA
UD/ UZ90WB	14039	1207	23	MA
UN1CB	14017	1202	4	FL
V85WF	14185	1540	3	CA
VE8ID	14024	0004	28	FL
VK9XI	14028	1606	29	CA
VK9XI	14028	1500	1	CA
VK9XI	14028	1515	25	CA
VP8JC	14180	2318	29	NH
VQ9GB	14030	1548	1	CA
VR6KY	14260	0111	22	MD
VS6EA	14180	1243	16	MD
VU2CK	14198	0138	17	MD
VU2SU	14017	1430	28	MA
YN4B	14025	1752	2	CA
ZC4MR	14226	1613	22	MD
ZD9CA	14185	1932	22	MD
ZD9CL *	14227	1600	3	CA
ZD9CL *	14235	1651	3	CA
15 MTRS				
6Y5IC	21305	2030	27	PA
FM5CT	21020	1211	4	FL
HB9BOS	21020	1212	4	FL
HC5BP	21023	2208	28	FL
LU1MQE	21011	2218	27	MT
TI2CF	21285	0017	29	IL
VP8BKK	21290	1615	21	MA
VP8BKQ	21290	1615	21	MA

Key to Bandpass: Callsign, frequency, UTC, day of month, state. * = long path, P = Packet. All 'portable' calls are listed with country of operation first, regardless of format used on the air.

8 00498 87/09
A A LAUN K3ZO
AMERICAN EMBASSY (USIS)
APO MIAMI FL 34021

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CALENDAR

Issue 357 Oct 10, 1986

(Changes in **boldface** for easy spotting)

Antarctica	FT8YA 14195, 10107, 7007
Ascension - ZD8	ZD8SW 14210 at 2100Z I353
Bophuthatawana	H5AZA Oct. 10-12. I355
Botswana - A22	A22BW long path 40 1430Z
Chagos - VQ9	VQ9QM 7002 1400Z
	VQ9GB 7005 at 1200Z
Chatham - ZL7	ZL7BKM 14162 0200Z
Christmas - VK9X	VK9XI Now-Oct 20 I352
	7005 10-1300Z
Djibouti - J2	J28EO 14165 16-1700Z
E. Carolines KC6	by KX6DS Nov 23-30 I353
Easter Is. - CEØ	CEØFFD 7001 at 0400Z
Fiji - 3D2	OH1RY Oct 18-21 I351+I356
Galapagos - HC8	HD8G Oct. 4-11 I349
Guantanamo KG	KG4XO 7026 0200Z
Guyana - 8R1	**8R1Z 80, 160 CW Oct 21-24**
Hong Kong - VS6	VS6DO **7004 at 1000Z**
Isle of Man GD	GD3WNE Oct 24-31 I356
Ivory Coast -TU	TU2NY 14233 at 2300Z
Jan Mayen - JX	JX1AC 14018 1500Z I356
Kermadec - ZL8	For 1 year from Oct. I352
Kure - KH7	KH6JEB/KH7 Oct 14-28 I356
Luxembourg - LX	by PAs Oct 9-13 I348
Macao - XX9	**XX9XX Nov 25-28 I357**
Macquarie -VKØ	VKØSJ 0300 Sun at 14285
	160 Tues. 2000Z I352
	3796 at 11-1300Z
Maldives - 8Q7	8Q7CH **14004 at 1700Z**
Mali - TZ	**TZ6WC 14227 at 2300Z**
Marshall - KX6	KX6DS at 7006 after 0930Z
Mauritania 5T5	5T5SL 14026 at 2100Z
Minami Tori. JD	7J1ACH 1911 1230Z I356
Mongolia - JT	JT1BG 1600Z F/S 20M I348
Monjes Is. SA-15	4MØA Nov. 1-15 I355
Mauritius - 3B8	YASME Oct. 1-Oct. 30 I356
Nepal - 9N	9N1NFO Oct 9-Nov 9 I352
	Also 9N1MC. See I354
Nigeria - 5N	YU3KI/5NØ 7001 1100Z
Pitcairn - VR6	VR6YL 14024 0400Z
Reunion - FR	FR4ZD 7003 at 0300
Samoa - KH8	DK7PE/KH8 7005 often I356
Seychelles-S79	**S79DX 14015 1600Z I357**
So. Shetlands	HFØPOL 14222 after 1900Z
Sri Lanka - 4S7	GM3YOR/4S7 Oct 14-28
Sudan - ST	ON7IP/ST2 to Nov. 30 I356
Svalbard - JW	JW7FD 14195 at 1130Z
Tanzania - 5H	5H3ZO **14028 19-2200Z**
Thailand - HS	**HS4ANH 7002, 14002 I357**
Tonga - A35	A35RY/OH1RY Oct 30-Nov 5
Trindade-PYØT	**Mid-Oct. 25 kHz up I357**
Tristan - ZD9	ZD9BV Now I354
Tuvalu - T2	OH1RY Oct. 22-28 I351
Vienna - 4U1VIC	14025-30 1130-1200Z
Wake Is. - KH9	KH9AC 14309 0330Z
	also on 40. See I352
	3860+ at 10-1400Z
W. Samoa - 5W1	OH1RY Nov 6-9 I356
	and DK7PE there soon
Zaire - 9Q5	9Q5NW from Nov. I353
Zimbabwe - Z2	**Z23JO 7005 at 0400Z**

Contests and DX Events

DXPO Washington DC Oct. 11-12 - W2GHK
VK/ZL/Oceania CW Oct. 11-12
CQWW SSB Oct. 25-26
New England DXCC Dinner Nov. 8 - W1DOH
European RTTY Contest Nov. 8-9

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